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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,772	09/15/2003	Ronald P. Doyle	RSW920030174US1	2183
	7590 10/01/200 ARNICK & D'ALESS.	EXAMINER		
75 STATE STREET			WAI, ERIC CHARLES	
	14TH FLOOR ALBANY, NY 12207		ART UNIT	PAPER NUMBER
			2195	
			MAIL DATE	DELIVERY MODE
			10/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/662,772	DOYLE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Eric C. Wai	2195			
The MAILING DATE of this communication ap	ppears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY of the may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statue Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	DATE OF THIS COMMUN. .136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become	AICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
1)⊠ Responsive to communication(s) filed on 7/18	8/2007				
<u> </u>					
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under					
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on 9/15/2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin 10. The oath or declaration is objected to by the Examin 10. The oath or declaration is objected to by the Examin 10. The oath or declaration is objected to by the Examin 10. The oath or declaration is objected to by the Examin 10. The oath or declaration is objected to by the Examin 11. The oath or declaration is objected to by the Examin 11. The oath or declaration is objected to by the Examin 11. The oath or declaration is objected to by the Examin 11. The oath or declaration is objected to by the Examin 11. The oath or declaration is objected to by the Examin 11. The oath or declaration is objected to by the Examin 11.	awn from consideration. For election requirement. For election requirement. For election requirement. For election requirement. For election required if the drawing (s) be held in abeying the drawing (s) the drawing (ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		54 CHISC / ISSIST OF ISHIFF FO 102.			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a lis	nts have been received. Its have been received in brity documents have been au (PCT Rule 17.2(a)).	Application No In received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗔 Intension	v Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	o(s)/Mail Date Informal Patent Application			

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DETAILED ACTION

1. Claims 1-20 are presented for examination.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 3. Claims 11-16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 4. Claim 11 recites a "system"; however, it appears that the system would reasonably be interpreted by one of ordinary skill in the art as software, per se, failing to be tangibly embodied or include any recited hardware as part of the system. While the specification provides support that the system includes both hardware and software, the claims stand on their own, and are read in light of their broadest reasonable interpretation.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirschfeld et al. (US Pat No. 6,990,666 hereinafter Hirschfeld).

7. Regarding claim 1, Hirschfeld discloses a method of managing resources in a system, the method comprising:

determining a demand for a service (col 2 lines 43-61, wherein demand by users for a server providing a service is an important factor in allocation resources);

determining many attributes of the system (col 3 lines 1-13, wherein there are a variety of factors that are determined); and

provisioning a resource for the service based on the demand and the attribute (col 3 lines 54 to col 4 line 2, wherein usage of resources is optimized).

- 8. Hirschfeld differs from claimed invention by teaching using a variety of attributes to provision a resource. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to only utilize a demand and a single attribute. One would be motivated by the desire to simplify the provisioning of a resource.
- 9. Regarding claim 2, Hirschfeld teaches that the attribute comprises a demand for at least one other service sharing the resources (col 3 lines 4-6, "incorporates dependencies and relationships between physical and logical resources").

10. Regarding claim 3, Hirschfeld teaches that the resources comprise at least one software server (col 3 lines 36-37, virtualized logical server), and wherein the attribute comprises a software status of the at least one software server (col 3 lines 36-50, wherein the state of a server is incorporated into a cost).

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- 11. Regarding claim 4, Hirschfeld teaches that the resources comprise at least one software server (col 3 lines 36-37, virtualized logical server), but does not explicitly teach that the attribute comprises a cache state of the at least one software server.
- 12. It would have been obvious to one of ordinary skill in the art at the time of the invention to include provisioning resources based on a cache state. One would be motivated by the desire for more efficient use of resources by reducing the necessity to replenish the cache with new data.
- 13. Regarding claim 5, Hirschfeld does not explicitly teach that the attribute comprises a time period required to provision at least one of the resources for the service.
- 14. Hirschfeld teaches using the cost to optimize usage of resources (col 4 lines 1-2). It would have been obvious to one of ordinary skill in the art at the time of the invention to factor in a time period required to provision a resource into the cost of doing so.
- 15. Regarding claim 6, Hirschfeld teaches that the attribute comprises a load on the image system (col 3 line 4, "usage").

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- 16. Regarding claims 7-10, Hirschfeld teaches the method as claimed in claims 1-6.
- 17. Regarding claim 11-16, they are the system claims of claims 1-6 above.

Therefore, they are rejected for the same reasons as claims 1-6 above.

18. Regarding claim 17-20, they are the program product claims of claims 1-6 above.

Therefore, they are rejected for the same reasons as claims 1-6 above.

Response to Arguments

19. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric C. Wai whose telephone number is 571-270-1012. The examiner can normally be reached on Mon-Thurs, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng - Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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